AMSAT News Service Weekly Bulletins
Issue: ANS-130
Date: 1992-05-09
Sources: amsat-ans-1992-ans-130.01.txt

SB SAT @ AMSAT $ANS-130.01
DOVE RETURNS TO 2M

HR AMSAT NEWS SERVICE BULLETIN 130.01 FROM AMSAT HQ
SILVER SPRING, MD MAY 9, 1992 BID:$ANS-130.01
TO ALL RADIO AMATEURS BT

DOVE Back On 2M

N4HY has returned DOVE (DO-17) to 2M again reloading it using its S-Band transponder. Hardware and software testing continues.

[The AMSAT News Service (ANS) would like to thank WD0E for the information which went into this bulletin.]

/EX
SB SAT @ AMSAT $ANS-130.02
IT V1.00 PATCH #2 AVAILABLE

HR AMSAT NEWS SERVICE BULLETIN 130.02 FROM AMSAT HQ
SILVER SPRING, MD MAY 9, 1992 BID:$ANS-130.02
TO ALL RADIO AMATEURS BT

Patch To InstantTrack V1.00 Cures Possible Problem With Earlier Patch

Patch #2 to InstantTrack V1.00 is now available. This patch cures a bug in Patch #1 to InstantTrack that could cause system crashes or causes other unpredictable behavior when reading an ill-formatted NASA 2-line element sets. Users who have installed Patch #1 are advised to install Patch #2 as soon as possible to avoid any problems.

Patch #2, like Patch #1 is designed to solve the problem created by the recent change in NASA's computation of the checksum in its 2-line element sets. NASA changed the value of the "+" sign from a "2" to a "0." Users can work around this problem by replacing each "+" sign in the element set files with a space. However, with Patch #2, this manual operation is not necessary. The "patched" InstantTrack V1.00b will accept NASA format element sets that use either checksum formula.

Patch #2 is available as ITPATCH2.ZIP or ITPAT2.ZIP on CompuServe's HamNet forum and several landline BBS systems, including the AMSAT/DRIG BBS at (214) 394-7438. Also, it is also available for "broadcast" download on AO-16 and LO-19. INTERNET users can receive it via an "anonymous" FTP (File Transfer Protocol) login from tomcat.gsfc.nasa.gov in the "public/amsat/itrack/" subdirectory as a file called itpatch2.zip. Patch #2 will soon be available from AMSAT-NA Headquarters. Please call AMSAT-NA at (301) 589-6062 for further details. Or if you wish, you can obtain it directly from the creator of the ITPATCH2.EXE directly by writing to:

Paul Williamson, KB5MU
5331 Channing Street
San Diego, CA 92117

If you expect a postal response from KB5MU, please include an SASE. If you expect a diskette in response, please send it formatted in a reuseable mailer with sufficient return postage. If you have questions about ITPATCH2.EXE, you can contact KB5MU in the following ways:

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     Internet: pwilliamson@qualcomm.com
     Compu$erve: 75265,367
     Pacsat: AO-16 or LO-19
     Packet BBS: KB5MU @ KC6NZN.#SOCA.CA.USA.NA

[The AMSAT News Service (ANS) would like to thank Paul Williamson (KB5MU)
for the information which went into this bulletin.]
/EX
SB SAT @ AMSAT   $ANS-130.03
AMSAT MID-WEST CONFERENCE SET

HR AMSAT NEWS SERVICE BULLETIN 130.02 FROM AMSAT HQ
SILVER SPRING, MD APRIL 9, 1992       $ANS-130.03
TO ALL RADIO AMATEURS BT

AMSAT Mid-West Conference Set For June 13th At Purdue University

Dick Shiller (K4BQH) and Dave Filmer (WB9QPG) have organized an AMSAT Mid-
West Conference to be held at Purdue University in West Lafayette, Indiana
on June 13th.  All radio amateurs are invited to attend this conference.
The following is the agenda and topics of discussion.

PROGRAM

8:00-9:00      Registration

8:30-9:00      Preliminary meeting of all Area Coordinators and Regional
               Coordinators.  Ron Pogue (KD9QB) to chair the meeting

9:00-9:45      "Developing a Satellite Tracking Program"
                Roy Welch (W0SL)

9:45-10:30     "Building and Operating the TRAKBOX"
                Leo Schaaf (KD8SI)

               COFFEE BREAK

10:45-11:30    "Controlling AO-16 and the CSDP Program"
                Bruce Rahn (WB9ANQ)

11:30-12:15    "Pacsat Gateways - Background and Operation"
                Dave Daley (NU9H)

               LUNCH

1:15-2:00      "Evolution of Amateur Satellite Telemetry"
               Gould Smith (WA4SXM)

2:00-2:30      Question and Answer Period.  Second Meeting of
               Area Coordinators (if necessary)

               COFFEE BREAK

2:45-3:30      "Digital Conversion of Medical Images and
               Transmission by Amateur Packet Radio"
                 Ron Pogue (KD9QB) and Jon Haskell (KB9CML)

3:30-4:15      "Amateur DSP Today"
                David L. Filmer, WB9QPG

4:25-5:00      Demonstration of Photographs and Pictures Downloaded
               from UO-14/22

For information about local lodging and other aspects of the arrangements,
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contact:

David L. Filmer, WB9QPG
Compuserve 73507,2613
INTERNET: dfilmer@bilbo.bio.purdue.edu
Phone: (Work) 317-494-4921; (Home) 317-463-6618

[The AMSAT News Service would like to thank Dick Schiller (K4BQH) for the information which went into this bulletin.]

/EX
SB SAT @ AMSAT $ANS-130.04
AMSAT-UK 7TH ANNUAL COLLOQUIUM

HR AMSAT NEWS SERVICE BULLETIN 130.04 FROM AMSAT HQ
SILVER SPRING, MD MAY 9, 1992 BID:$ANS-130.04
TO ALL RADIO AMATEURS BT

AMSAT-UK Sponsors 7th Annual Satellite Colloquium at UoS

AMSAT-UK is sponsoring a symposium focused on all OSCAR satellites and digital communications. Questions & Answer sessions with various Amateur Satellite experts are planned. As in years past, the University of Surrey will be the meeting place for this Colloquium. The following is the preliminary "line-up" of programs planned for the week of July 30 - August 2:

Thursday	July	30th:	International Satellite Day
Friday	July	31th:	Satellite Sessions
Saturday	August	1st:	Satellite Sessions
Sunday	August	2nd:	Satellite Sessions

Overseas members can arrive on Wednesday and leave on Monday morning if they wish. The POSH Restaurant and Bar is going to be used for the Saturday Night "shindig." Ron wonders if the "Junk Sale" Saturday night is the the right thing to do. Send your wish list to Ron at his address below. Also, Ron Broadbent advises that any papers for Colloquium '92 MUST be in his hands by the 10th of June.

For more details on the Symposium, contact:

Ron Broadbent, G3AAJ
94 Herongate Road
Wanstead Park
London E12 5EQ England

Tel: 081-989-6741 (9:30 - 18:30 British Time daily)
Fax: 081-989-3430 (24 Hours)

[The AMSAT News Service (ANS) would like to thank AMSAT-UK for the information which went into this bulletin.]

/EX
SB SAT @ AMSAT $ANS-130.05
ZRO TEST SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 130.05 FROM AMSAT HQ
SILVER SPRING, MD MAY 9, 1992 BID:$ANS-130.05
TO ALL RADIO AMATEURS BT

AO-13 ZRO Test Schedule: May 1992

The ZRO Memorial Technical Achievement Award Program, or just "ZRO Test" has a new schedule for May, 1992, via AO-13. This activity is a test of operating skill and equipment performance.

During a typical ZRO run, a control station will send numeric code groups using CW at 10 words-per-minute. At the beginning of the run, uplink power from the control station is set to match the general beacon downlink strength. This is level "zero." The control operator will send and repeat a random five-digit number, then lower the uplink power by 3 dB (half power) and repeat the procedure with a new random number. This will continue to a level 27 dB below the beacon (level "nine").

A participating listener monitors the downlink signals until they can no longer copy the numbers. Those who can hear the beacon will qualify for the basic award by copying the code group heard at level "zero". The challenge is to improve home-station performance to a point where the lower-level downlink signals can be copied (levels 6 through 9).

The following schedule of Mode "B" and "JL" ZRO tests were chosen for convenient operating times and favorable squint angles. The "B" tests can be heard on 145.840 MHz and the "JL" test on 435.945 MHz. Ed (N5EM) will run the "JL" tests while Andy (WA5ZIB) will continue with "B" runs.

Saturday May 16, 1992 at 0120 UTC "JL"
Saturday May 23, 1992 at 0500 UTC "JL"
Sunday May 24, 1992 at 0400 UTC "B"
Saturday May 30, 1992 at 1745 UTC "B"
Saturday May 30, 1992 at 2000 UTC "JL"

Note that the dates and days are shown in "UTC", thus the test on May 16th occurs on Friday night for those in North America. The same situation is true for the tests on May 23rd and May 24th. Any changes will be announced as soon as possible via the AMSAT HF and AO-13 Operations Nets.

Recently updated ZRO brochures are available from WA5ZIB, Andy MacAllister, AMSAT V.P. User Operations, 14714 Knightsway Drive, Houston, TX 77083 for an S.A.S.E. with two units of postage. The brochure characterizes test procedures, means for obtaining certificates and gives some historical background about the program. A few certificate requests from the previous round of ZRO tests are still pending but should be shipped by May 9th.

All listener reports with date of test and numbers copied should be sent to WA5ZIB at the address above. A report will be returned verifying the level of accurate reception.

/EX
SB SAT @ AMSAT $ANS-130.06
AO-13 OPS NET SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 130.06 FROM AMSAT HQ
SILVER SPRING, MD MAY 9, 1992 BID:$ANS-130.06
TO ALL RADIO AMATEURS BT

AMSAT-NA Operations Net Schedule

AMSAT Operations Nets are planned for the following times. Mode B Nets are conducted on AO-13 on a downlink frequency of 145.950 MHz and Mode J/L Nets on a downlink of 435.970 MHz.

Date	UTC	Mode	Phs	NCS	Alt
17-May-92	0030	B	143	WJ9F	VE2LVC
30-May-92	1845	J	104	VE2LVC	WJ9F
7-Jun-92	0030	B	154	WB6LLO	W9ODI

Guest commentators are planned. Join the Net if you have questions. In the unlikely event that either the Net Control Station (NCS) or the alter-

nate do not call up frequency, any participant is invited to act as NCS.

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Slow Scan Television on AO-13

Mode B downlink of 145.925 MHz at MA 135 on UTC Sundays. Also try Mode J downlink of 435.980 MHz at MA 135 on UTC Saturdays.

/EX
SB SAT @ AMSAT $ANS-130.07
SPRING AO-13 TRANSPONDER SCHED
HR AMSAT NEWS SERVICE BULLETIN 130.07 FROM AMSAT HQ
SILVER SPRING, MD MAY 9, 1992 BID:$ANS-130.07
TO ALL RADIO AMATEURS BT

AO-13 Spring Schedule Announced

The spring schedule for AO-13 is as follows:

N QST de DB2OS 16Mar92 00:45utc ** AO-13 Transponder Schedule **
schedule Mar 16 - Jun 08
Mode-B : MA 000 to MA 100 ! Mode-JL ON Mon, Wed !
Mode-JL : MA 100 to MA 120 ! Fri and Sat UTC only. ! Alon/Alat
Mode-LS : MA 120 to MA 135 ! S Beacon on "L" days ! 178/-6
Mode-JL : MA 135 to MA 150 ! S Transp on "B" days +-----------
Mode-B : MA 150 to MA 256 ! See AMSAT-Journals and Packet
Omnis : MA 240 to MA 030 ! Radio Bulletins for full details.

AO-10 is currently available for Mode B operation when it is view of your QTH. PLEASE DO NOT attempt to use AO-10 if you hear the beacon or the transponder signals FMing.

/EX
SB SAT @ AMSAT $ANS-130.08
AO-16 EXPERIMENTER'S DAY

HR AMSAT NEWS SERVICE BULLETIN 130.08 FROM AMSAT HQ
SILVER SPRING, MD MAY 9, 1992 BID:$ANS-130.08
TO ALL RADIO AMATEURS BT

AO-16 Experimenter's Day Schedule

The AO-16 Command Team has announced the following PACSAT Experimenter's Day schedule for April and May:

DATE	START TIME	END TIME	MODE
13 May	0455 UTC - 13 May	0425 UTC - 14 May	RCO
20 May	0310 UTC - 20 May	0245 UTC - 21 May	RCO
27 May	0625 UTC - 27 May	0600 UTC - 28 May	RCO

RCO: Raised Cosine Only, No S-Band.

QRP operations are encouraged on Experimenter's Day. Uplink power should be limited to 20 watts EIRP. If you are using your AO-10/13 beams, this means you must crank your power back to about as low as it will probably go, no more than 2 watts. And don't forget to turn off your amplifier!

While Experimenter's Day operations are scheduled to be conducted weekly, users are reminded that these operations may be shortened or canceled to allow uploading of improved spacecraft software. Watch for bulletins on the AO-16 BBS and/or the telemetry text frame for changes to the schedule.

[ANS thanks Bruce Rahn (WB9ANQ) for this bulletin item.]

/EX
SB SAT @ AMSAT $ANS-130.09
FO-20 TRANSPONDER SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 130.09 FROM AMSAT HQ
SILVER SPRING, MD MAY 9, 1992 BID:$ANS-130.09
TO ALL RADIO AMATEURS BT

FO-20 Mode JA Transponder Schedule

The following is the latest status and operation schedule for FO-20:
Mode JA Operation Schedule

13-May-92 03:00 UTC -to- 14-May-92 03:25 UTC
20-May-92 03:30 UTC -to- 21-May-92 02:00 UTC
27-May-92 02:00 UTC -to- 28-May-92 02:20 UTC

Mode JD Operation Schedule unless otherwise noted above.

[The AMSAT News Service would like to thank JJ1WTK and SpaceNews Editor KD2BD.]

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